CLAIMS

What is claimed is:

1. A method for performing single frame backwards playback in a DVD system, the method comprising:

(a) receiving a signal indicating selection of a single frame reverse function;

(b) reconstructing frame data for a preceding frame of an original playback;

(c) utilizing memory sufficient to support the reconstructing step; and

(d) displaying the reconstructed frame data of the preceding frame.

2. The method of claim 1 further comprising (e) determining whether another selection of the single frame reverse function has occurred.

3. The method of claim 2 further comprising repeating steps (b), (c), and (d) for a next preceding frame when another selection has occurred.

4. The method of claim 1 wherein the utilizing step (c) further comprises utilizing at least seven frame buffers.

5. A method for performing single frame reverse playback in a DVD system, the method comprising:

receiving a signal indicating selection of a single frame reverse function;

providing sufficient memory to store reconstructed frame data for a frame preceding a currently displayed frame; and

displaying the frame.

6. The method of claim 5 further comprising determining whether another selection of the single frame reverse function has occurred.

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7. The method of claim 6 further comprising reconstructing a next preceding frame when another selection has occurred.

8. The method of claim 5 wherein providing sufficient memory further comprises providing at least seven frame buffers.

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9. A DVD player system with single frame backwards playback capabilities, the system comprising:

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a decoding engine for receiving a signal indicating selection of a single frame reverse function and reconstructing frame data for a preceding frame of an original playback;

a plurality of frame buffers for storing frame data during the reconstructing; and

a display device for displaying the reconstructed frame.

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10. The DVD player system of claim 9 wherein the decoding engine further determines whether another selection of the single frame reverse function has occurred.

11. The DVD player system of claim 10 wherein the decoding engine reconstructs a next preceding frame when another selection has occurred.

12. The DVD player system of claim 9 wherein the plurality of frame buffers further comprises at least seven frame buffers.

13. The DVD player system of claim 9 wherein the DVD player system further comprises a PC-based DVD player.

14. The DVD player system of claim 9 wherein the DVD player system further comprises a game console-based DVD player.